Dari Hawkesbury, ON K6A 1K7 Canada 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada



Purchasing Receipts

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Plex 3/8/2018 3:08 PM Dart. Dubois. Pascal

PURCHASE ORDER PO039125

68-6 11 SAG

68-6 11 SAG

68-6 11 SAG

> Canada KEA 1K7 Hawkespury, ON 1270 Aberdeen St Dart Aerospace Ltd.

Tel (613) 632-5200

T IEU	I A M	-1	5/26/18		:eteC	109		notiulos xu	MetaM	ldn
SLOZ	FEB 27	5]	81/7/18		Date:	Puro	te3 railiiet Est	liuer	σс rouge	
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Extended	11411		Received	Order	Due	tems		Supplier		9
			Quantity	Quantity	Date	Status Firmed	Description 4140 Steel Bar 1,000 X 1,250	Part No	Part -B-Ohrt-TM	u
	#\aaaaa.cr\$	# 9	9	H 9	QL/11/e	רוותופט	: AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529		092.1X000.1	
07.211 \$	#\&&&&\.81\$	¥9 (m)o	# 9	31/1/8	рэтіЭ	receive ft AISI 4140 Steel Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-		-8-0414-TM .250X1.500	
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https://www.plexonline.com/2e468e8d-d938-4a3f-94d9-e4979d67e3b8/Plexus_Control/Report_Viewer_2.asp?rv=u%1E...%2FPurchasing%2FPO_Print... 1/2 Plex 2/27/18 8:06 AM dart.lavoie.chanta

PAG FF 88-6	
SAG FF 68-6	
SACI 68- 6	

6 M1018R5.500 MAM	Extended			Received	Order	Date	Status	Description	Supplier Nart No	hsq	Line
81756 ANATERIAL: 17-4 PH 82.750 CONDITION H1150 R3.750 ANATERIAL: 17-4 PH 83.750 CONDITION H1150 R3.750 ANATERIAL: 17-4 PH 83.750 CONDITION H1150 R3.750 ANATERIAL: 17-4 PH 10.01 ANATERIAL: 17-4 PH	\$433.40	1/98.801\$						M1018R5.500 : MATERIAL: AISI 1018-1025 SOUND BAR M1010S20GA AS		M1018R5.500	9
H1150- H1150 CONDITION H1150 MAR 0 8 2018			n a	(H)0	n a	81/7/8	рәші	: MATERIAL: 17-4 PH CONDITION H1150		H1150-	ı
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	28.26√,£\$	Grand Total:									

Order Notes

Procurement Quality Clauses A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

AO26 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 2/27/18 8:06 AM dart.lavoie.chantal

\$	06	50		4140 HTSR ROU 1.375" DIA	MR13841H
£	58	53		"S1 X "S X 8 84846mq,TH 85 X 1087 BUT SM "S2 X 1	DT34083
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P	9/2	97		1 X 1 25" X 72" HT;pm94384 4140 HTSR PLATE 1.250" THICK	HIPPIIdW
<i>P</i>	75'		AUS TNATAOAMI AUG N TAE	LE PACKING SLIP INSCRIRE LES HE	MP141H
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	ř				Customer: 6
		: 133100 166009:	Pondquio Populo Gins Gins	COUES CARTIER EST	METAUX SOLU S625 BOUL JAC JAN 1L7
		Jahr	gniqqidS		~

*** Continued on Next Page ***

SR334174

SR234174

HR512

1 X 1511 ****

ST 17-4PH ROU 3.750 DIA COND. H1150

ST 17-4PH ROU 2,750 DIA COND. H1150

HRS ROU 5.500 DIA 1018/1020

07/03/2018 Shipping Order

40

190 OVA

Oty. Deliver

Tel: 1613 632-3336

Same

Reference : PO039125 : 133100 Order

of divs

: PICK UP / PICK UP

diys

Kef. :

Tel: 450 641-3330 *TONGNENIT'* ONEBEC

2625 BOUL JACQUES CARTIER EST

HAWKESBURY, ONTARIO 1270, ABERDEEN STREET

DART AEROSPACE LTD

METAUX SOLUTIONS INC

Customer: 6323336

KEA 1K7

Item No.

14N 1L7

Description

HT;9sh0213-6202

SHIP JOURNEY COLLECT

dr

7: 280d

Package No **Suidding**

Merchandise Received:

00:0 1 Go.ros,r 60.1 60, roa, r PO LINE Product Description Drop Ship Ref: Customer PO: 44152-JF Sales Order: 218678 Tracking Number00217 Ship Via: Will Call F.O.B.: Washington Ship Date: 2/13/2018 f.davis@metauxsolutions.com CANADA CANADA LONGUEUIL QC JAN1L7 LONGUEUIL QC J4N 1L7 2625 BOUL. JACQUES-CARTIER EST 2625 BOUL JACQUES CARTIER EST **METAUX SOLUTIONS** METAUX SOLUTIONS OL dias Sold To:

edd begging 00.308,1 Back Ordred . PO LINE Shipped Pcs Product Description 0.0350 - 1 0.2500 - no 0.1900 - oM 0096.0 - 10 0.1600 - IN 0.2950 -!S 2000.0 - 5 0700.0 -d 0,7510 - uM 0.4130 - 0 Country of Origin SLOVENIA

64946

MSP12500 1,805.00 0.00 0.00 1,805.00 0.00 0.00 1,805.00 0.00 0.00 1,805.00 0.00 0.00 0.00 1.445 3/4" MARSHALLOY STANDARD DELUXE PLATE 4140/42 PREH.

MARSHALLOY STANDARD DELUXE

DFACTOR COmpliant

PM HEAT#

1-1/4 X 34 1/16" X 146 3/16" MARSHALLOY STANDARD DELUXE PLATE 4140/42 PRE

PM HEAT#: 94492

PLATE#: 4242498

PLATE# : 424244B

MARSHALLOY STANDARD DELUXE

ASTA MT24 Q ASTA TQ

Country of Origin SLOVENIA C- 0.4200 Mn- 0.8030 P- 0.0070 S- 0.0005 Si- 0.2000 Ni- 0.2100

Ct- 0.9900 Mo- 0.1600 Cu- 0.2470 V- 0.0360

00.01E NH8

BHN 301.00

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Page 01 of 03

(RIVE-SUD)

5-MAR-2018 Certification Date NUMERO DE COMMANDE DU CLIENT CUSTOMER ORDER NUMBER

STPOLS Invoice Number PART NUMBER/NUMÉRO DE PIÈCE J-61274

206428

SOLD TO:

VENDUA:

HEAT:

METAUX SOLUTIONS INC.

ОC

EXPEDIE A: :OT 9IHS

Sess boul Jacques Cartier est

PONGOEDIF OC 14N I Seze Boul troques Cartier Est

METAUX SOLUTIONS

Line Total: 101.06 LB 4140/4142 HR HT BAR STRESS FREE 269/321 BHN

ILEW: 200428

31 (IZ) M88EA\88EA MTZA PI ISYA MTZA YELO IE DI POEA MTZA JDM AO QL-2 ASTM A434 GR BC 16

LTI NOC

ASTM A193 GR B7 16
ASTM A962 A962M SEC 16

BIL

PONGNENIF

EI SSEA MTZA

S64872

EN 10504 3'I 88 EA MTSA ASTM E45 13

Specifications:

I-3/8 RD X (20)

Description

9T 9T-9T09 DIW

CHEMICAL ANALYSIS

	11 1 time.	112.02.40 40	314664			К383318	RCPT:
				T000.0	00000	100.0	CA 0.005
2A 200.0	0°008 NB	V 800.0	B 0.0001	TT 0.0036	NS . 0 .	CU 0.40	JA 320.0
MO 0.23	IN 81.0	I'02 CK	TTO.0	Ф 6.013	IS SE.0	NM 86,0	0.421

WIG 0016/2016 ADD 10 16

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

5.9I IN OS IN \$EFONG

0.9PT KZI ULT TEN

D.IEI KZI YLD STR

DESCRIPTION

conneu par ce rapport rencontre les spécifications décrités cipossession. Par les présentes, nous certifions que le matériel Material did not come in contact with mercury while in our

STE

BHN

HARDNESS

API 6A/ISO10423 PSL3

ASME SAL93 GR B7 01

DI OVEA MTZA

YZLW ELOO IE

YZLW EIIS I3

BI 6SA MTZA

JOANNE DESPRES

52.0

IN AREA

specifications inscrites am le certificat. We hereby certify that the material covered by this report ususcrites du cerufical d'essais du manufacturier après vérification de l'état complet des sont a spiriture de subject le examination. Les informations et hant-membrandines sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

fraudulenses en rapport avec le résultat des essais sont panissables en vertu des lois fédérales. пыу be punishable as a felony under federal stantes. ALes informations fausses, fictives ou rencontre les spécifications décrites ci-haul. The willful recording of false, fictitions, or fraudulent statements in connection with test results part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a

Page 02 of 03

810S-AAM-2 Certification Date

8514072

Tavoice Number

CUSTOMER ORDER NUMBER

NUMERO DE COMMANDE DU CLIENT

PART NUMBER/NUMERO DE PIÈCE T-662777

206428

VENDUA:

SOLD TO:

(KINE-SUD) METAUX SOLUTIONS

2625 BOUL JACQUES CARTIER EST

LONGUEUIL QC J4N 1

Sess Boul Jacques Cartier Est EXPÉDIÉ À:

LONGUEULL QC JAN 1L7

METAUX SOLUTIONS INC.

XAM XAM XAM XAM XAM XAM XAM XAM THIN THICK NIHL THICK THINTHICK THIN LHICK D CLEAULINESS 0.78 0.88 7,28 0.87 PONG E E CHARPY SHEAR EXPN DESCRIPTION SWBF#I #5 AVG #3 ORNT LEWB LADE NOW IL-1bs TAI IMPACT TEST IDEAL DIAMETER : 7.47 IN GRAIN SIZE :8 もも St St 43 95 LT 35 30 28 56 53 09 90 IS 25 23 79 55 99 99 99 19 49 88 85 89 SI OI 9 9 t 2 6 3 T END-QUENCH HARDENABILITY (JOMINY - RC) ILEW: 200458 HEAT: . 2437.95 Line Total: 101.06 LB 1-3/8 KD X SO, K/L 4140/4142 HR HT BAR STRESS FREE 269/321 BHN Description:

:OT 91H2

convert par ce rapport renconfre les spécifications décrites cipossession. Par les présentes, nous certifions que le matériel Material did not come in contact with mercury while in our

indust husband

JOANNE DESPRES

part of the description. Apar les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a specifications inscrites sur le certifical. We hereby certify that the inaterial covered by this report transcrites du cortilieat d'essais du manufacturier après vérification de l'état complet des results remain on life subject to examination. A.es informations ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

STRESS RELIEVED 1094 DEG E X 1431 TEMPERED 1166 DEG F AIR X 143' AUSTENITIZE 1616 DEG F WATER X 122'

NO MELD REPAIR PERFORMED ON MATERIAL

MATERIAL IS FREE FROM MERCURY COUTAMINATION VACUUM DEGASSED

THERMAL TREATMENT: OK

ULTRASONIC: YES

STRAND CAST

finuduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales. may be punishable as a felony under federal statutes. Ales informations fausses, fictives ou rencontre les spécifications décrites ci-haut.

The wilthul recording of false, ficitions, or fraudulent statements in connection with test results

CERTIFICATE OF TEST CERTIFICAT D'ESAIS

Page 03 of 03

Certification Date 5-MAR-2018 NOMĘKO DE COMMYNDE DO CLIENT COSLOMEK OKDEK NOMBEK

Invoice Number

PART NUMBER/NUMÉRO DE PIÈCE

806428

(KIAE-SAD)

METAUX SOLUTIONS

LONGUEUIL QC J4N 1

METAUX SOLUTIONS INC. SHIP TO: EXPÉDIÉ À:

TONGOLEULL QC J4N 1L7

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
HEAT: 243795
TEM: 506428

Line Total: 101.06 LB

QUENCH WATER TEMP: BEFORE 86 DEG F AFTER 108 DEG F

WICKOT: OK

COMMENTS

A.EMD.C.V:

SOLD TO:

red, ratio = 60

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décritées ci-

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Ales informations ci-haut-mentionnées sont innacrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscribes sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described berein, including any specification forming a part of the description. Alar les présentes, nous certifions que le matériel couvert par ce rapport control les spécifications décrites ci-haut.

The veilthit recording of false, fictitions, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. At as informations fausses, fictives ou transluteness on rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

Curput 1

JOANNE DESPRES

CERTIFICAT D'ESAIS TEST TO STADISITEDS

Page 01 of 02

(RIVE-SUD)

5-MAR-2018 Certification Date NUMERO DE COMMANDE DU CLIENT CUSTOMER ORDER NUMBER

62T704S Invoice Number PART NUMBERVNUMËRO DE PIÈCE J-67214

2034IE

VENDUA:

SOLD TO:

METAUX SOLUTIONS

ÕC 14M J PONGRENIE Sezs Boul JACQUES CARTIER EST

Sese Bour JACQUES CARTIER EST EXPÉDIÉ À: METAUX SOLUTIONS INC. :OT 91H2

THU ILY ЭÕ PONGRENIE

25.0")

AAB AH 8101

Line Total: 350.3 LB

YZIW EIO IS II IBLA MTSA ASTM EIL2 13 JDM AO QL2 Mesa esa Misa

WIG J30J2 ADD 7 16

ILEW: 2034I2

REMNANT **BYZA MTZA**

TO MIITA/IITA MTSA YSTM E381 OL EN 10204 3.1 ASTM A675 GR 60

Specifications HEAT: 22086418

ASI OVEA MTSA YZIW E42 Y I3 II M88EA\88EA MT2A 9EA MT2A 806 9724 MT2A

220864I8

CHEMICAL ANALYSIS

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B 0.000∉	N P700.0	0.004 NB	IT 6000.0	JA 2S0.0	NS 700.0	0.12 0.12	V 200.0
OM 20.0	IN So.0	0.07	TE0.0	0.012	LT.0	NM 83.0	CT.0

MECHANICAL PROPERTIES

ISI 0.83 0.92 0,28873 0.9II8E BHN IN AREA IN OS IN ISd ISd DESCRIPTION HARDNESS YLD STR

convert par ce rapport rencontre les spécifications décrites cipossession. Par les présentes, nous certifions que le matériel Material did not conte in contact with mercury while in our

TOPMUE DESPRES

Jund-le serires de spécifications décrites el handpart of the description. Abar les présentes, nous certifions que le matériel convert par ce tapport will meet the applicable requirements described herein, including any specification forming a specifications inscribes am le certifical. We hereby certify that the material covered by this report hanscrites du certificat d'essais du manufacturier après vérification de l'état complet des results remain on tile subject to examination. Alexantoristions ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

ristabile en verta des loi résultat des essais sont panissables en verta des lois fédérales. may be punishable as a lelony under federal statutes. Ales informations fausses, ficuves ou The willful recording of false, fictitions, or fraudulent statements in connection with test results

Page 02 of 02

5-MAR-2018 Certification Date

(RIVE-SUD)

NUMERO DE COMMANDE DU CLIENT CUSTOMER ORDER NUMBER

6814072 Invoice Number

PART NUMBER/NUMÉRO DE PIÈCE D-67244

203415

VENDUA: SOLD TO:

EXPEDIE A: :OT 91H2

PONGNENIT OC 14N IPA Sess Bour JACQUES CARTIER EST

HEAT: 5-1/2 RD X 4:4.0" (52.0") REMUANT 373A MTZA Description: 1018 HR BAR

METAUX SOLUTIONS INC.

ILEW: 2034I2

IDEAL DIAMETER :11.09 IN GRAIN SIZE :6 -22086418

CLEAULINESS

0.0 0.0 0.0 8.1 0.2 MFX THICK XAM XAM XAM XAM THIN THIN THICK THICK В

NO WELD REPAIR PERFORMED ON MATERIAL MATERIAL IS FREE FROM MERCURY CONTAMINATION VACUUM DEGASSED REDUCTION RATIO 18.7 TO 1 INGOT CAST

OLTRASONIC: YES

MACRO: OK

WICKOT: OK

COMMENTS

0100.0 nz ,2000.0 dz ,0100.0 zz ,0400.0 sa chemistry cont:

couveit par ce rapport rencontre les spécifications décrites cipossession./Par les présentes, nous certifions que le matériel Material did not come in contact with mercury while in our

8.0 8.0

XAM

NIHT

Line Total: 350.3 LB

Seze Bonr JACQUES CARTIER EST

TONGOLEGIE OC 14N I

METAUX SOLUTIONS

XAM

THICK

JOANNE DESPRES

westerd Learness

may be punishable as a felony under federal statutes. Ales informations fances, fictives on The willful recording of false, fiethous, or fraudulent statements in connection with test results rencontre les spécifications décrites ci-hant. part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a specifications inscrites sur le certifical. We hereby certify that the material covered by this report transcrites du certificat d'essais du manufacturier après vérification de l'état complet des results remain on file subject to exanunation. /Les informations ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

liandul cuses en rapport avec le résultat des essais sont pumssables en vertu des lois fédérales.

Page 01 of 02

5-MAR-2018 Certification Date NUMERO DE COMMANDE DU CLIENT CESTOMER ORDER NUMBER

T376763 Invoice Number **5YBL NOVIBEIS/NOMERO DE SIECE** J-67211

SSYIGI

METAUX SOLUTIONS (KIAE-SOD)

OC 14N I

YEME SYSE4 TYPE 630 13

Seze Boul Jacques Cartier EST EXPEDIÉ A:

METAUX SOLUTIONS INC.

IN-4 HK

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AAA TA

VENDUA: SOLD TO:

TONGNENIF

TAN ILY ÕG LONGUEULL Sese Boul Jacques Cartier est

Line Total: 121.26 LB 492A MTSA

AMS 8 6875 B

SZYIFI ILEW:

VELW PRET LIVEE 630 10

COND HITEO

:OT 9IHS

EN 10504 3'I

U E 198 SMA Specifications:

897697

5-3/4, BD 3/6 CO. Om

TI OTEA MTZA 81 P84A MT2A

Description:

CHEMICAL ANALYSIS

						R403893	RCPT:
, , , , , , , , , , , , , , , , , , , ,			CBTA 0.2719	AT 6100.0	CB 0.27	N 0.035	CU 3.29
OM 22.0	IN SE.A	15.86 CR	12 8£.0	£20.0	g 0.023	0 P. O	0.0360

0.009911

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

21.6

IN OS IN BHN IN AREA HARDNESS **\$EFONG**

5.59

D'OOSTET ISd

YLD STR

COND HITEO

possession. Par les présentes, nous certifions que le malériel Material did not come in contact with mercury while in our

JOANNE DESPRES convert par ce rapport rencontre les spécifications décrites ci-

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Page 02 of 02

(RIVE-SUD)

5-MAR-2018 Certification Date

L376763 Invoice Number

> NUMERO DE COMMUNDE DO CETENT CUSTOMER ORDER MURER

1-6LZDD

PART NUMBER/NUMÉRO DE PIÈCE

SZZIGI

TONGREDIF

VENDU A: SOLD TO:

Sess Bour arcques cartier est

METAUX SOLUTIONS INC.

P99A MTSA

TOMEDERIF

METAUX SOLUTIONS

Line Total: 121.26 LB

ŎC 14N I

Sese Boul JACQUES CARTIER EST

COND HIT20 IN-4 HR RT BAR

OC 14N IPA

897697 HEAT: 5-3/4 RD S/C 6:0" (72.0") Describtion:

ILEW: SSLIGT

EXPÉDIÉ À:

:OT 9IH2

MATERIAL IS FREE FROM MERCURY COUTAMINATION

NO MELD REPAIR PERFORMED ON MATERIAL

MACRO: OK

WICKOT: OK

convert par ce rapport rencontre les spécifications décrites cipossession./Par les présentes, nous certifions que le matériel Material did not come in confact with mercury while in our

JOANNE DESPRES

Curdus A

rencontre les spécifications décrites ci-haul. part of the description. Apar les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a specifications inscrites sur le cerrifical. We hereby certify that the material covered by this report transcrites du certificat d'essais du manufacturier après vérification de l'état complet des results remain on file subject to examination. Ales informations ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales. may be punishable as a felony under federal statutes. Alex informations fausses, fietives ou The willful recording of false, fictitious, or fraudulent statements in connection with test results

Page 01 of 02

5-MAR-2018 Certification Date NUMERO DE COMMANDE DU CLIENT CUSTOMER ORDER NUMBER

T376762 Invoice Number J-672P4

PART NUMBER/NUMERO DE PIÈCE

GRAIN SIZE :6 -0.27 120.0 140.0 KSI KSI KSI 0.42 COND HITEO IN AREA IN 05 IN DESCRIBLION SELONG SRED HARDNESS MECHANICAL PROPERTIES COUNTRY OF ORIGIN : TAIWAN R407275 200.0 22.0 92.0 82.8 NB ATAN CO 15.28 IN O7.₽ MN P 0.021 SI.O T00.0 55.0 10.0 CHEMICAL ANALYSIS EN 10204 3.1 A31 888A MT2A YEWE SYSE4 TYPE 630 13 ASTM AS64 TYPE 630 13 U 8498 SMA Specifications: ILEM SSTIGS 95H0213-B201 Line Total: 225.54 LB (10.27 3-3/4 KD 2/C 6/0" 492A MT2A Beeck ption: 17-4 HR RT BAR COND (HILSO PONGUEULL QC JAN I LONGUEULL QC JAN 1L7 2625 BOUL JACQUES CARTIER EST Sess boul Jacques Cartier Est EXPÉDIÉ A: VENDU A: (KINE-SOD) METAUX SOLUTIONS METAUX SOLUTIONS INC. :OT qIHS SOLD TO: STLLZS

convert par ce rapport renconue les spécifications décrites cipossession/Par les présentes, nous certifions que le matériel Material did not come in contact with mercury while in our

JOANNE DESPRES

remonth e les spécifications décrites ci-haut. The willful recording of false, ficilions, or fraudulent statements in connection with test results part of the description. Apr les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a spécifications inscrites sur le certifical. We hereby certify that the material covered by this report transcrites du certificat d'essais du manufacturier après vérification de l'état complet des results remain on file subject to examination, ./Les informations ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

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Page 02 of 02

(KINE-SOD)

5-MAR-2018 Certification Date

T376762 Invoice Number

> NUMERO DE COMMANDE DU CLIENT CUSTOMER ORDER NUMBER

J-67544

PART NUMBER/NUMERO DE PIÈCE

PONGUEUL

STLZS

SOLD TO:

VENDUA: METAUX SOLUTIONS INC.

Line Total: 225,54 LB POSA MTSA

METAUX SOLUTIONS

PONGUEUL

OC 14N I

2625 BOUL JACQUES CARTIER EST

COND HII20

OC 24N IPA

Sess Boul JACQUES CARTIER EST

ILEW: SZYI45

EXPEDIÉ A:

:OT 9IHS

17-4 HR RT BAR Describtion:

NO MELD REPAIR PERFORMED ON MATERIAL

95H0213-B202 HEAT: 3-3/4 KD S/C 0:01 (72.01)

MATERIAL IS FREE FROM MERCURY CONTAMINATION

WICKOT: OK MACRO: OK

convert par ce rapport rencontre les spécifications décrités cipossession. Par les présentes, nous certifions que le matériel Material did not come in contact with mercury while in our

JOANNE DESPRES

rencontre les spécifications décrites ci-hant. part of the description. That les présentes, nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a specifications inscrites sur le certificat. We hereby certify that the material covered by this report uniscrites du certificat d'essais du manufacturier après vérification de l'état complet des results remain on file subject to examination. Ales informations ci-haut-mentionnées sont for completeness and specification requirements of the information on the certificate. All test The above data were transcribed from the manufacturer's Certificate of Test after verification

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GÉRANT DE L'ASSURANCE QUALITÉ MANAGER QUALITY ASSURANCE

Curpered

Material Test Report

:15176E

Osto Dr., (4/30/2016 0000056606

7953 Washington Woods Dr., Dayton, OH 45459

Phone: (837)573-4876 Fex: (702)926-4126

TEST CERTIFICATE ACC TO DIN 60049 73.1 B/EN: 10204: 3.1

PO Number:87-15955

Product: TUBE

Description: A513T5-14; SRA; DCM; Grade=1020; Category=CARBON WELDED; Round; DD=0.750";

ID=0.584" (WT=0.083"); Debugred; Length=240" to 288"

Ends: Deburred

Part Number 87-15955-17

Hest No: 12C1472

	00.87	00.01	000,88	000,88	NIM XAM		o	81-7.0 71-3.0	5000:0	2000	%	Manganese (Mn) Silicon (Si) Aluminum (AL)	
	HYBDNESS	∃%	8.T.U i∎¶	S.Y	i	นอกิด		06 0 06 0	00052.0 0009.0	0081.0	WOOL	Cerbon (C)	
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ł				Spec Type:	elianaT	1			%	(oM) munabdyloM	H
1				:notatnehC	Sample (. <i>fel</i>	1		1 %	Nickel (Ni)	li
1	and continue against himself-u	111-48 01 c			-	1 6			%	Chromium (Cr)	
1					DORY	0019.0	0.0350	!	%	Sulfur (S)	4
I	00.08	20.00	010,87	058,78	אורר	00130	0.0350		96 1	(9) sunorideoria	11
ļ					XYW;	09570	•	*	%	Aluminum (AL)	i
į	00.87	10.00	000'99	22,000	NIM	0713.0			%	Silicon (8i)	
ł					tores toronto	0.4300	0009.0	0.3000	96	(nM) eeensgraM	-
1	HRB	7 0/	isd)#el	i	006:0	0.2300	0.1800	%	Carbon (C)	1

TIN (SN) # : SAR OF OD 1/3% OF OD PASSED

100% EDDY CURRENT TESTING- E309 . : PASSED

: 2/3% OF OD 1/3% OF OD PASSED

: 18% OF ID PASSED

STRAIGHTNESS : PASSED (1/1000 MM)

Remarks:

Boron (B) Zirconium (ZI) Antimony (Sb)

Melted In: INDIA Product is free of weld repair art? has not come in contact with Mercury or any of its components.

We hereby Certify that the material described above conforms to Specification and Purchase Order.

all John

notannol IIIB

Quality Co-ordinator

Any questions, Please email: TestReports 2 sans-lic.com

(Minequired)	INC SICN	ENCINEER					DC 18 INSPECTION
			Uality Office	eated in the C	eters l	163	
						10	HARDNESS / DUROMETER READIN
		****	-			-	AND TO STATE
MEBSTER	ם שחם	A AUG	НКВ	ВС	H	1	JAISE OF MATERIAL
				RD RESULT		Я	
	22 CHECK	A HARDNE	MROTERORM	GNA JAIRE	ITAM	30 E	SOTI SAMPLE PIECE
					N	٨	DOES THIS REQUIRE AN EXTRUSION REPORT
	· ·				N	٨	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
					N	W	CORRECT M# ON THE MATERIAL
					N	(1)	CORRECT MATERIAL IDENTFICATION
		81498	3086	II FO	N		CORRECT REF # TO LINK CERT
					(N)		РНОТО REQUIRED
			10/61	1M16/1	N	\mathbb{R}	CORRECT THICKNESS CORRECT THICKNESS
			1100	Daix De	N	K	CORRECT GRAIN DIRECTION
					N		CORROSION
			**		N		CORRECT FINISH
					N	X	SURFACE DAMAGE
					(N	1/人	
	ST	COWWEN.				(CP	DESCRIPTION
					Я:	NC	
70	NED:	SIZE KECEI	SHEET	·		9	QUANTITY REJECTED:
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COCC	VED:	NE22 BECE	THICKI			,5	QUANTITY RECEIVED:
0000	RED:	NESS OKDE	THICK		5	01	MATERIAL CERT REC'D:
					8 20	0 AA	:BTAG
				VI	~~ ~		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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8102 8 0 AAMe8-8 :3TAG

SPECIFICATION CONTROL DRAWING

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DESIGN
DRAWN
CHECKED
MFG. APPR. DATE B REFORMAT, ADD ASTM A108, ADD TOLERANCES
A NEW ISSUE 12.09.05 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
ORAWING NO.
M1018-R
SHEE CP 12 09 05
DS 01 06 12
BY DATE SHEET 1 OF 1 SCALE NTS REV. B

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2012 -19- 24 TU

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PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

MIL-S-7097 OR ASTM A108

PART NUMBER: SPECIFICATION:

TOLERANCES:

EG. 7/8" ROUND BAR = M1018-R0.875

PER ASTM A108 AS FOLLOWS:

M1018-R.D.D.D.D.D. WHERE D.D.D.D. = DIAMETER IN INCHES

SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

D WEBSTER	ENGINEERING SIG	HRB LTS BELOW	HEC DED RESU			F TEST SAMPLE VESS / DUROMETER READII
D WEBSTER	AND A AND	HRB LOW	HEC DED RESU			OF MATERIAL NESS / DUROMETER READII NOSPECTION
	A A AUG	HRB LOW	HEC DED RESU			BLAMAS TSET 30
	A A AUG	HRB LOW	HEC DED RESU			BLAMAS TSET 3 (
		LTS BELOW	DRD RESU		1G	BLAMAS TSET 3 (
		LTS BELOW	DRD RESU			
		LTS BELOW	DRD RESU		1	
эк:	A HARDNESS CHEC					
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			IAA IAIGOT	LVVV	20 :	1031d 3 1dWV3 1110
1				\bigcirc		
				(N)	٨	OOES THIS REQUIRE AN EXTRUSION REPORT
				N	7	NGINEERING SIGN OFF
						S THIS MATERIAL REQUIRE
				N	38	CT MATERIAL IDENTFICATION RECT M# ON THE MATERIAL
	HOCK T	N	3	RECT REF # TO LINK CERT		
			(N)	1	PHOTO REQUIRED	
		1.001	TOT CIT	N	(4)	CORRECT THICKNESS
		1774	W/2H	N	8	RRECT GRAIN DIRECTION
			_	N	Y	CORROSION
				N	(1)	CORRECT FINISH
				(N)	<u> </u>	SURFACE DAMAGE
	COMMENTS			V/N)		DESCRIPTION
	3111111100				NC	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

SPECIFICATION CONTROL DRAWING

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PART NUMBER: PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5843 OF ASTM A584

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M17-4- HHHHHH-R XXXX WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW) XXXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

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		(SOLUTION TREATED)	CONDA
135	105	H1150	H1150
140	115	H1100	00117
145	125	H1075	27010
155	145	H1025	020111
170	155	H925	11005
190	170	H900	H900
150	100	(CONDITION A NOT ACCEPTABLE)	(OMITTED)
A 11 10 CO 10 CO		NONE CONCINE	
MIN ULTIMATE TENSILE STRENGTH (KS)	MIN YIELD TENSILE STRENGTH (KSI)	CONDITION	CODE

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

0

EXAMPLES:

PART NUMBER M17-4-R4.000 M17-4-H900-R2.500 M17-4-H1025-R3.250 M17-4-CONDA-R0.750

PART
4.000° DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500° DIAMETER BAR H900 CONDITION
3.250° DIAMETER BAR H025 CONDITION
0.750° DIAMETER BAR A CONDITION

E[N17-728 DELENSE 1 2017 -10- 31

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APPROVED MFG. APPR. DE APPR. DRAWN DESIGN CHECKED 00 ADDED MATERIAL CONDITION (CIR17-107)

REGRIMAT DWG, ST7400/TYPE 630 ADDED TO

DIROMSE MATERIAL (ZN D8-1), ADD A584 SPEC (C3-1),

REF PAR 05-22TA

NEW ISSUE 17.09.14 S MW इ १ ह 17-4 SS ROUND BAR TITLE HAWKESBURY, ONTARIO, CANADA M17-4-R DART AEROSPACE LTD COPYRIGHT © 2005 BY DART AEROSPACE LTD PRIVATE AND COMPLETION, AND IS SUPPLED ON THE FORWAS CONDITION AND PRIVATE TO JAW OTHER PRIVATE AND JAMES TO JAW OTHER PRIVATE AND JAW 망양 S S SHEET 1 OF 17.09.14 05.03.16 DATE 10.05.20 REV. C SCALE NTS

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		1	he Quality Office	ai boteool	33043		SDNESS / DUROMETER READIN
						1 0	E OF TEST SAMPLE
						1	E OF MATERIAL
WEBSTER	ם אחם	A AUG	НКВ	НВС		1	
			ULTS BELOW				
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							DOES THIS REQUIRE AN
					N	1	ENGINEERING SIGN OFF
	-						OES THIS MATERIAL REQUIRE
					N		SECT MATERIAL IDENTFICATION (
		2	946077	t. VYTH	N	(3)	ORRECT REF # TO LINK CERT
		4	MOJUT	7.011	N	X	PHOTO REQUIRED
					N	(2)	CORRECT THICKNESS
			1-95H	W15/1	N	(1)	RRECT MATERIAL PER M-DRAWING
					N	100	CORRECT GRAIN DIRECTION
					W	A	CORROSION
					N	10	CORRECT FINISH
					N	Y	SURFACE DAMAGE
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00	YED: 75°	KNESS BECEI	IDIHI				QUANTITY RECEIVED:
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/				8107	R O	NAM	M := TAG
199 1200	SY)::ON	HOTA8 \ O9	0617	771091	T L.T.	- /-	MATERIAL: VIII

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:BTAQ

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

8105 8 0 9AM ⁶⁸⁻⁶

TI

SAG

:3TAQ

INSPECTED BY:

OC 18 INSPECTION

SPECIFICATION CONTROL DRAWING

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PART NUMBER:

SPECIFICATION:

PURCHASE MATERIAL: 17-4 PH / \$17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM VIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE AMS 5643 OR XSTM A564

M17-4- | HHHHH-|R| | X.XXX | WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW) X.XXX = DIAMETER (IN INCHES)

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MATERIAL CONDITION TABLE: (OMITTED) H900 H925 H1025 H1075 H1170 H1150 CODE H900 H925 H1025 H1075 H1100 H1150 CONDITION A (SOLUTION TREATED) NONE SPECIFIED (CONDITION A NOT ACCEPTABLE) CONDITION MIN YIELD TENSILE STRENGTH (KSI) 100 170 175 176 MIN ULTIMATE TENSILE STRENGTH (KSI) 190 170 145 145 135 150

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

CONDA

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

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EXAMPLES:

PART NUMBER M17-4-R4.000 M17-4-H900-R2.500 M17-4-H1025-R3.250 M17-4-CONDA-R0.750

PART 4,000° DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI 2,500° DIAMETER BAR H900 CONDITION 3,250° DIAMETER BAR H1025 CONDITION 0,750° DIAMETER BAR A CONDITION

E[N17-728 DELEAS 1 2017 -10- 31 777

APPROVED

DESIGN DRAWN CHECKED DATE MFG. APPR APPROVED DE APPR. W ADDED MATERIAL CONDITION (CBR77-197)
REFORMAT DWG. S17400TYPE 630 ADDED TO
PURCHASE MATERIAL (ZN D8-1), ADD AS84 SPEC (C8-1),
REF PAR 08-020A.
NEW ISSUE 17.09.14 S MM B 900 (P. 17-4 SS ROUND BAR TITLE HAWKESBURY, ONTARIO, CANADA DRAWING NO.
M17-4-R DART AEROSPACE LTD COPYRIGHT © 2005 BY DART AEROSPACE LTD

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OTHER AND RESIDENCE OF TOWARD CONTROL OF A PERSON WITHOUT IS G S S SHEET 1 OF 17.09.14 05.03.16 DATE 10.05.20 REV. C SCALE

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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SCALE			TITLE		SIAU
SHEEL 1 OE 1		8-HC	HIHW	ML	M
BEA' Y			DEVMINE NO	- THE NOW HOLD	CHECKED
ACE LTD	ROSP , ONTARK]	DRAWN BY	DESIGN



PURCHASE MATERIAL: AISI 4140 H ROUND BAR

-A193- 19-5328- 130-92A- 183-91 54 1 08-454-A-150-40EA MTZA 30 0414 1214 A34-

154 001 = HUSLIGHTS 3715/131 344WILTH WINWININ

WHERE D. DDD = DIAMETER IN INCHES MINIMUM YIELD TENSILE STRENGTH = 66 KET

000.0 8-HOHIHM

EG. 78 ROUND BAR = MHIHOH-RO.875

COPYTIGHT OF CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPPLED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

	_		
	(N)	X	DOES THIS REQUIRE AN EXTRUSION REPORT
	(V)	٨	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
	N		CORRECT M# ON THE MATERIAL
	N	(1)	CORRECT MATERIAL IDENTFICATION
E [] [] [] [] []	N	(1)	CORRECT REF # TO LINK CERT
	(N)	7	PHOTO REQUIRED
	N		CORRECT THICKNESS
21 E13 H WX 34	N	(7)	CORRECT MATERIAL PER M-DRAWING
	N		CORRECT GRAIN DIRECTION
	(N)	1	CORROSION
	M	(7)	CORRECT FINISH
	(N)	7	SURFACE DAMAGE
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					TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING
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	SS CHECK.	SANDRAH A N	ND PREFORI	IA JAIRETAN	CUT SAMPLE PIECE OF N

testers located in the Quality Office

: ETAO	9-8-8 NAM-8-6	:BTAQ
SIGNED OEE BA:	SAG	INSPECTED BY:
ENGINEERING SIGNOFF (if required)		DC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) SPECIFICATION CONTROL DRAWING EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 WHERE T.TTT IS WALL THICKNESS IN INCHES WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES MT-A513-T-[D.DDDJW[T.TTT] ASTM A513 TYPE 5 A REV TYPE 5 ADDED, TEMPLATE UPDATED NEW RELEASE DESCRIPTION N ASTM AS13 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) 17-855 ECN# MT-A513-T 17,12,13 17.09.08 DATE BY APPROVED
VM VM
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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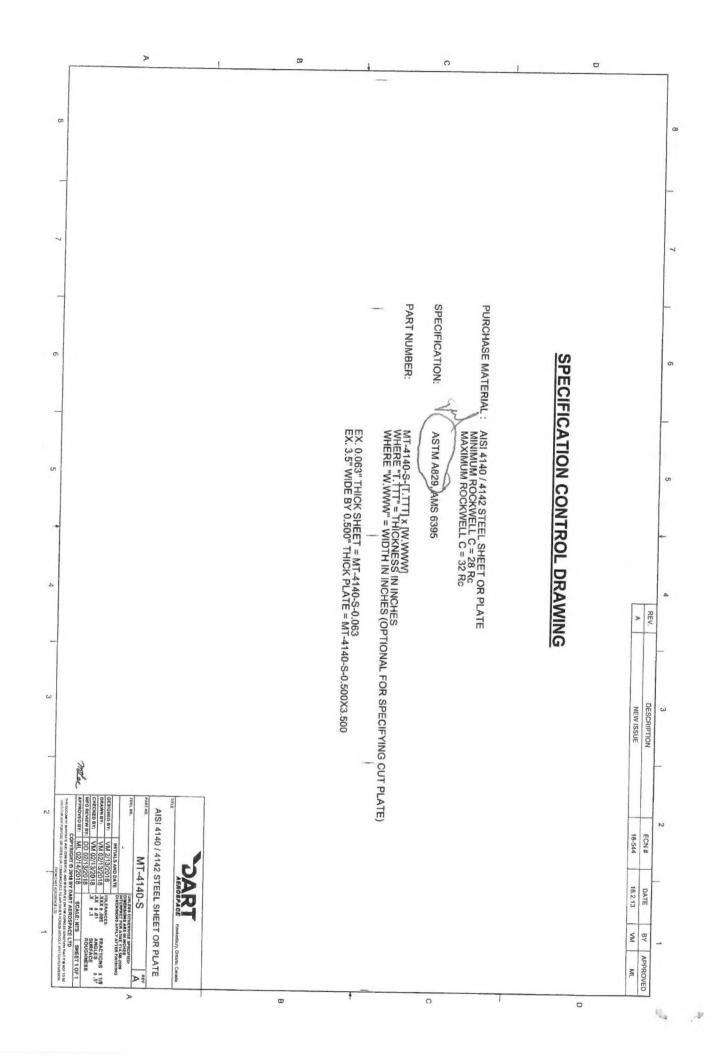
C 0 PART NUMBER: PURCHASE MATERIAL: AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc SPECIFICATION: SPECIFICATION CONTROL DRAWING EX. 0.063" THICK SHEET = MT-4140-S-0.063 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500 MT-4140-S-[T.TTT] x [W.WWW] WHERE "T.TTT" = THICKNESS IN INCHES WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE) ASTM A829, AMS 6395 S AREV ယ DESCRIPTION NEW ISSUE AISI 4140 / 4142 STEEL SHEET OR PLATE 18-544 ECN# DART MT-4140-S 18.2,13 DATE ¥. FRACTIONS ± 1/8
ANGLES ± .5'
SURFACE
ROUGHNESS BY APPROVED N. B 0 D

Quality Office	ocated in the C	ST912	-	
			16	AND SEA PROPERTIES REPORT
			-	SIZE OF TEST SAMPLE
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	ND RESULT		Ы	
PREFORM A HARDNESS CHECK.				CUT SAMPLE PIECE
		W	人	EXTRUSION REPORT
				DOES THIS REQUIRE AN
		(M)	٨	ENGINEERING SIGN OLL
		1	0	DOES THIS MATERIAL REQUIRE
		N	3	ORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL
66566	# 100A	N	8	CORRECT REF # TO LINK CERT
2.010	10.4	(1)	Y	PHOTO REQUIRED
		N	(2)	CORRECT THICKNESS
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COMMENTS		BCK		DESCRIPTION
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SHEET SIZE RECEIVED:			0	QUANTITY REJECTED:
SHEET SIZE ORDERED:			100	QUANTITY INSPECTED:
767			10	
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THICKNESS ORDERED: 1.2.50		5	01	MATERIAL CERT REC'D:
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DO / BATCH NO. (2) 2/25/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/	-1,200x1.	168	O AA	M TERIAL STAG

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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SIGNED OFF BY:

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INSPECTED BY:

